



SEQUENCE LISTING

(1) GENERAL INFORMATION:

5 (2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH:

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

10 (ii) MOLECULE TYPE: DNA (oligonucleotide)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

15 FR-patched RFB4

VH:

Full length cDNA sequence (SEQ ID no. 1):

20 GAAGTCAGCTGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGG
GGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTTCAGTAT
CTATGACATGTCTGGTTCGCCAGGCACCGGGAAAGGGGCTGGA
GTGGGTGCGATACATTAGTAGTGGTGGTGGTACCACTACTATCCA
GACACTGTGAAGGGCCGATTCAACCACCTCCAGAGACAATGCCAAG
AACTCCCTGTACCTGCAAATGAACAGTCTGAGGGTGGAGGACACA
25 GCCTTATATTACTGTGCAAGACATACTGGTACGGTAGTAGCTACG
GGTTTGTTGCTTACTGGGCCAAGGGACTCTGGTCACTGTCTCT
TCA

Full length amino acid sequence (SEQ ID no. 2):

30 EVQLLESGGGLVQPGPSRLSCAASGFSFSIYDMSWVRQAPGKGLEW
VAYISSGGGTTYPDTVKGRFTISRDNAKNSLYLQMNSLRVEDTALYY
CARHSGYGSSYGVLFAYWGQGTLVTVSS

N-terminal sense strand template DNA sequence (SEQ ID no. 3):

35 CCTGGAGGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTT
CAGTATCTATGACATGTCTGGTTCGCCAGGCACCGGGAAAGGGG
CTGGAGTGGTCGCATAC

5' Primer for N-template (SEQ ID no. 4)

40 GAAGTCAGCTGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGG
GGTCCCTGAGG

3' Primer for N-template (SEQ ID no. 5)

45 GTAGGTGGTACCACCACTACTAATGTATGCGACCCACTCCAGC
CC

C-terminal sense strand template DNA sequence (SEQ ID no. 6):

TTCACCATCTCCAGAGACAATGCCAAGAACTCCCTGTACCTGCAAA
TGAACAGTCTGAGGGTGGAGGACACAGCCTATATTACTGTGCAAG
ACATAGTGGCTACGGTAGTAGCTACGGGTTTGCT

5 5' Primer for C-template (SEQ ID no. 7)
GGTGGTACCACCTACTATCCAGACACTGTGAAGGGCCGATTACCA
TCTCCAGAGACAAT

10 3' Primer for C-template (SEQ ID no. 8)
TGAAGAGACAGTGACCAGAGTCCTGGCCCCAGTAAGCAAACAA
AACCCCCTAGCT

Joining site: KpnI
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15 VK:

Full length cDNA sequence (SEQ ID no. 9)
GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG
AGACAGAGTCACCATTAGTTGCAGGGCAAGTCAGGACATTAGCAA
20 TTATTAAACTGGTATCAGCAGAAACCAGGTAAGGCTCCGAAACTC
CTGATCTACTACACTAGTATATTACACTCAGGAGTCCCATCAAGGT
TCAGTGGCAGTGGGTCTGGAACAGAATTACTCTCACCAATTAGCTC
CCTGCAGCCAGAAGATTGCCACTTTGCCAACAGGGTAAT
ACGCTTCCGTGGACGTTCGGTGGAGGCACCAAGGTGGAAATCAA
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Full length amino acid sequence (SEQ ID no. 10)
DIQMTQSPSSLSASVGDRVTISCRASQDISNYLNWYQQKPGKAPKLLIY
YTSILHSGVPSRFSGSGLTEFTLTISSLQPEDFATYFCQQQNTLPWTFG
GGTKVEIK

30 N-terminal sense strand template DNA sequence (SEQ ID no. 11)
CTGTCTGCCTCTGTGGGAGACAGAGTCACCATTAGTTGCAGGGCAA
GTCAGGACATTAGCAATTATTAAACTGGTATCAGCAGAAACCAGG
TAAGGCTCCGAAACTC

35 5' Primer for N template (SEQ ID no. 12)
GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG
AGAC

40 3' Primer for N-template (SEQ ID no. 13)
ATATACTAGTGTAGTAGATCAGGAGTTCCGGAGCCTTACC

C-terminal sense strand template DNA sequence (SEQ ID no. 14)
CCATCAAGGTTCAAGTGGCAGTGGGTCTGGAACAGAATTACTCTCA
45 CCATTAGCTCCCTGCAGCCAGAAGATTGCCACTTTGCCAAC
CAGGGTAATACGCTTCCGTGGACGTT

50 5' Primer for C-template (SEQ ID no. 15)
CTACACTAGTATATTACACTCAGGAGTCCCATCAAGGTTCAAGGTCAGTGGC
AGT

3' Primer for C-template (SEQ ID no. 16)
TTTGATTCCACCTGGTGCCTCACCAGAACGTCCACCGAACCGTA
TT

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Joining site: SpeI A^VCTAG_AT

10 FR-Patched chimeric 1F5
VH:

15 Full length cDNA sequence (SEQ ID no. 17):
CAGGTGCAACTGGTGGCTTCGGGGCTGAGGTAAATAAGCCTGGG
GCCTCAGTGAAGGTCTCCTGCAAGGCTCTGGCTACACATTACCA
GTTACAATATGCACTGGTACGGCAGCCTCTGGAAGGGGCCTGGA
ATGGATTGGAGCTATTATCCAGGAAATGGTGTACTAGTTACAAT
CAGAAATTCAAGGGCAAGGCCACATTGACTGCAGACAAATCCTCC
AGCACAGCCTACATGCACTCAGCAGTCTGACATCTGAGGACTCTG
20 CGGTCTATTACTGTGCAAGATCGCACTACGGTAGTAACGTAGA
CTACTTGACTACTGGGCCAAGGCACCACTGTTACAGTCTCCTCT
GATCA

25 Full-length amino acid sequence (SEQ ID no. 18):
QVQLVASGAEVNKPGASVKVSCKASGYTFTSYNMHWVRQPPGRGLE
WIGAIYPNGDTSYNQKFKGKATLTADKSSSTAYMQLSSLTSEDSAVY
YCARSHYGSNYVDYFDYWGQGTTVTVSSD

30 N-terminal sense strand template DNA sequence (SEQ ID no. 19):
AATAAGCCTGGGCCTCAGTGAAGGTCTCCTGCAAGGCTCTGGCT
ACACATTACCACTACAATATGCACTGGTACGGCAGCCTCTGG
AAGGGGCCTGGAATGGATTGGA

35 5' Primer for N-template (SEQ ID no. 20)
CAGGTGCAACTGGTGGCTTCGGGGCTGAGGTAAATAAGCCTGGG
GCCTCAGTGAAG

40 3' Primer for N-template (SEQ ID no. 21)
TGTAACTAGTTACCATTCCTGGATAAAATGCTCCAATCCATTCC
AGGCCCT

45 C-terminal sense strand template DNA sequence (SEQ ID no. 22):
TTGACTGCAGACAAATCCTCCAGCACAGCCTACATGCAGCTCAGCA
GTCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCGCA
CTACGGTAGTAACGTAGACTACTTGACTAC

50 5' Primer for C-template (SEQ ID no. 23)
TGATACTAGTTACAATCAGAAATTCAAGGGCAAGGCCACATTGACT
GCAGACAAATCCTCC

3' Primer for C-template (SEQ ID no. 24)
TGATCAGAGGAGACTGTAACAGTGGTGCCTGGCCCCAGTAGTCAA
AGTAGTCTACGTA

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Joining site: SpeI

VK:

10 Full-length cDNA sequence (SEQ ID no. 25):

GATATTCAACTCACACAGTCTCCATCAAGTCTTCTGCATCTGTGGG
GGACAGAGTCACAATTACTGCAGGCCAGCTCAAGTTAAGTTTC
ATGCACTGGTACCAGCAGAACGCCAGGATCCTCCCCAAACCCCTGGA
TTTATGCCACATCCAACCTGGCTCCGGAGTCCTAGTCGCTTCAGT
15 GGCAGTGGTCTGGGACCGAGTTCACTCTCACAATCAGCAGTTGC
AGCCTGAAGATTGCCACTTATTCTGCCATCAGTGGAGTAGTAA
CCCGCTCACGTTGGTGTGGACCAAGCTGACCGTTACGG

Full-length amino acid sequence (SEQ ID no. 26):

20 DIQLTQSPSSLSASVGRVTITCRASSLSFMHWYQQKPGSSPKPWIYA
TSNLASGVPSRFSGSGTEFTLTISLQPEDFATYFCHQWSSNPLTFGA
GTKLTVLR

N-terminal sense strand template DNA sequence (SEQ ID no. 27):

25 TCAAGTCTTCTGCATCTGTGGGGACAGAGTCACAATTACTTGCA
GGGCCAGCTCAAGTTAAGTTCATGCACTGGTACCCAGCAGAACCC
AGGATCCTCCCCAAACCCCTGGATTATGCCACATCC

5' Primer for N-template (SEQ ID no. 28):

30 GATATTCAACTCACACAGTCTCCATCAAGTCTTCTGCATCTGTG

3' Primer for N-template (SEQ ID no. 29):

GGACTCCGGAAGCCAGGTTGGATGTGGCATAAATCCAGGG

35 C-terminal sense strand template DNA sequence (SEQ ID no. 30):

TTCAGTGGCAGTGGGTCTGGGACCGAGTTCACTCTCACAATCAGCA
GTTTGCAGCCTGAAGATTGCCACTTATTCTGCCATCAGTGGAGT
AGTAACCCGCTCACGTTGGTGTGG

40 5' Primer for C-template (SEQ ID no. 31):

GGCTCCGGAGTCCCTAGTCGCTTCAGTGGCAGTGGGTCTGGG

3' Primer for C-template (SEQ ID no. 32):

CCGTAGAACGGTCAGCTGGTCCCAGCACCACGTGAGCGG

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Joining site: BspEI